SEMESTER END EXAMINATION MAY 2026

Course Name: - B.Tech (CSE-AIFM) Semester:- 4th

Paper Name: - Artificial Intelligence For Finance Paper Code:- NAM-402

Time - 3 Hrs + 20 minutes per hour extra time for V.I. & examinees with writer. Max Marks-70

Instructions:

- The question paper consists of three sections namely A, B, C. All sections are compulsory.
- Section A- Each question carries **3 mark. All questions are compulsory.**
- Section B- Answer any **5 out of 7** given questions. Each question carries **7 marks.**
- Section C- Answer any **2 out of 3** given questions. Each question carries **10 marks.**

Section – A
Multiple Choice Questions

1. Answer all the following questions. **5×3=15**

2.

1) Which of the following is a key application of AI in the finance sector?

(a) Fraud detection (b) Document scanning
(c) Social media marketing (d) Customer service

2) What does the AI algorithm in finance commonly use to detect fraudulent activities?

(a) Predective analysis (b) Machine learning
(c) Decision trees (d) All of the above

3) Which AI technology is often used in credit scoring systems?

(a) Natural Language Processing(NLP) (b) Neural networks
(c) Robotics Process Automation(RPA) (d) Data mining

4) AI can be used to analyze financial market sentiment through:

(a) Sentiment analysis of social media data (b) Financial forecasting
(c) Statistical analysis (d) Data encryption

5) A potential challenge of AI in finance

(a) Increased transparency (b) Data privacy and security concerns
(c) Universal accessibility (d) Reduced operational costs

Section – B
Short Answer Questions

3. Answer any five of the following questions. **5×7=35**

(i) What do you know about Artificial Intelligence? Explain with their history.

(ii) Discuss briefly about Depth First Search.

(iii) What is Data? Explain various types of data.

(iv) How can you explain Regression and Classification in Machine Learning.

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(v) Explain ARIMA models briefly.

(vi) Discuss about Neural Network. What do you know about Recurrent Neural Network.

(vii) Define Sentiment Analysis. Explain application of sentiment analysis in Finance.

Section – C
Descriptive Questions

4. Answer any 02 of the following questions. **2×10=20**

(i) Discuss briefly about importance and benefits of AI in financial services.

(ii) Explain following Data Preprocessing Techniques:

(a) Cleaning (b) Normalization (c) Feature Engineering

(iii) Explain briefly Long Shor-Term Memory Network.

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